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TITLE:

WEAR-RESISTANT SINTERED HARD ALLOY

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**INVENTOR-INFORMATION:**

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**INT-CL (IPC):** C22C029/08

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**ABSTRACT:**

**PURPOSE:** To obtain the titled sintered hard alloy composed of the WC-base sintered hard alloy contg., in a proper ratio, a binding phase having a specified composition consisting of Ni, Co, Mo and Cr, which has superior properties such as resistance to heat, impact and thermal shock as well as wear resistance at high temps.

**CONSTITUTION:** The binding phase of a WC-base sintered hard alloy consists of Ni, Co, Mo and Cr, and the composition thereof is as follows: Mo/(Ni+Co+ Mo+Cr)=1/50 ~1/10, Cr/(Ni+Co+Mo+Cr)=1/20 ~ 1/5, Co/Ni=9/1 ~1/9; Ni+Co+ Mo+Cr=10 ~30wt%. Hereby a sintered hard alloy having excellent properties under the conditions in which thermal shock and thermal fatigue resistance as well as wear resistance at high temp. are required can be obtained.

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